

Wideband Patch Antenna

Abstract

A wideband patch antenna is presented that comprises a patch which may be of pure metallic form or may be etched on a dielectric, that may be rectangular, elliptical, triangular, or any other geometric shape. The patch is disposed a distance above a ground plane and is driven by a helix-shaped or meandering probe disposed between the patch and the ground plane. The probe is normal to the ground plane. In addition, a plurality of such patch antennas may be combined to form antenna arrays or dual-band antenna structures.